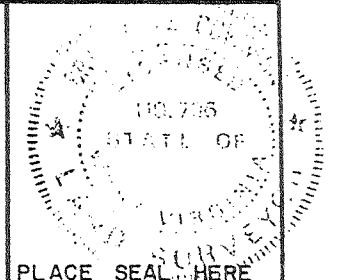


REFERENCES NO SCALE

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1:5000
 PROVEN SOURCE OF ELEVATION EXISTING WELL 1913
 ELEVATION 806.01

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) *Raymond Brown*
 R.P.E. _____ L.L.S. 736



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 WEST VIRGINIA
 (8-78) DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW _____)
 LOCATION: ELEVATION 767 WATER SHED LEFT FORK OF TWO MILE CREEK
 DISTRICT STONEWALL COUNTY CREEK
 QUADRANGLE WAYNE, WV 7.5'

SURFACE OWNER CLARENCE SANDERS ACREAGE 146±
 OIL & GAS ROYALTY OWNER H.A. PELFREY ET. AL. LEASE ACREAGE 203±
 LEASE NO. 47-0494.01

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION LOCKPORT ESTIMATED DEPTH 4800'
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP. DESIGNATED AGENT MR. HARRY JEWEL
 ADDRESS 999 EXECUTIVE PARK BLVD., SUITE 300 ADDRESS PO BOX 460
KINGSPORT, TN 37660 RAVENCLIFF, WV 25913

DATE JANUARY 8, 19 99
 OPERATOR'S WELL NO. L-18
 API WELL NO. 47-099-01909
 STATE COUNTY PERMIT

APR 5 1999

DEEP WELL

MAY 1969

WR-85

Office of Oil & Gas Permitting

JUN 09 2000

WV Division of Environmental Protection

DATE: 06/05/00
API #: 47-99-01969

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Revision _____

Well Operator's Report of Well Work

Farm name: Sanders, Clarence Operator Well No.: L-18

LOCATION: Elevation: 767' Quadrangle: Wayne

District: Stonewall County: Wayne
Latitude: 15100 Feet South of 38 Deg. 12 Min. 30 Sec.
Longitude 3300 Feet West of 82 Deg. 25 Min. 0 Sec.

Company:

Penn Virginia Oil & Gas Corporation

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 387	20"	20'	20'	0
Duffield, VA 24244	13 3/8"	313'	313'	307
Agent: Harry Jewell	9 5/8"	1242'	1242'	523
Inspector: Dave Belcher	4 1/2"	3986'	3986'	480
Date Permit Issued: 03/29/99				
Date Well Work Commenced: 10/27/99				
Date Well Work Completed: 12/04/99				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 4050'				
Fresh Water Depth (ft.): Damp @ 185', 1/4" @ 189', 1" @ 963', 1015' and 1080', 2 1/2" @ 850'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 33'-35', 351'-373', 383'-387'				

OPEN FLOW DATA

Producing formation Lockport Dolomite Pay zone depth (ft) 3872'-3882'
Gas: Initial open flow 100 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 64 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1030 psig (surface pressure) after 96 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

By: James R Wilson
Date: 6/5/00

MAY 19 1969

JUN 30 2000

FORM WR-35R
(REVERSE)

PERMIT #: 47-99-01969
WELL #: L-18

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

Stage 1 Lockport Perforated from 3872' to 3882' with 152 holes. Breakdown 250 gallons 15% HCL acid and water. Treated with 500 gallons 15% HCL acid.
ATR: 2.5 BMP ATP: 3350 psi ISIP: 2900 psi

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Breathitt	0	765	
Salt Sand	765	1120	
Pennington	1120	1180	
Little Lime	1180	1200	
Big Lime	1200	1400	
Big Injun	1400	1510	
Borden	1510	2012	
Berea	2012	2125	
Devonian Shale	2125	3160	
Corniterous Lime	3160	3910	
Big Six	3910	3953	
Rose Hill	3953	TD	